

Work Order ID 80845-1

Thursday, March 01, 2012 1:04:40 PM

\*80845\*

Page 1

Item ID: D3997-29

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Placard

Start Date: 3/1/2012 Start Qty: 20.00

\*20\*

Cust Item ID:

Required Date: 3/1/2012 Req'd Qty: 20.00

\*20\*

Customer:

Reference:

Approvals: Process Plan:

Date: 12-03-1

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3997

A

100

0.00

\*100\*

Purchasing

Memo

0.00

Purchasing

Issue P/O: 14322  
Manufacture as per Dwg D3997  
Possible Supplier: Studio Lettrage  
Material release note required

12-03-01  
(20)

110

Receive & Inspect for Damage & Mat'l Certs

0.00

\*110\*

Packaging

Memo

0.00

Packaging

6/2/3/05 (18)

120

QC6- Inspect dimensions to drawing

0.00

\*120\*

QC

Memo

0.00

Quality Control

5/2/03/05

12-03-01  
(21)

# Work Order ID 80845

\*80845\*

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Thursday, March 01, 2012 1:04:40 PM

Item ID: D3997-29 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Placard  
 Start Date: 3/1/2012 Start Qty: 20.00 \*20\* Cust Item ID:  
 Required Date: 3/1/2012 Req'd Qty: 20.00 \*20\* Customer:

## Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start \*NR1\*  
 QC: Date: SPC (Y/N): Date: Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: 141	0.00				12/3/6	SP	20	
*130*									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
*140*									
QC	Memo	0.00							
Quality Control									

12-63-4  
 (21)

# Picklist Print

Page 1

Thursday, March 01, 2012 1:04:45 PM

Work Order ID: 80845

\*80845\*

Parent Item: D3997-29

\*D3997-29\*

Parent Item Name: Placard

Start Date: 3/1/2012

Required Date: 3/1/2012

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP rev A 10.01.13 new issue Prelim EC verified by:DD

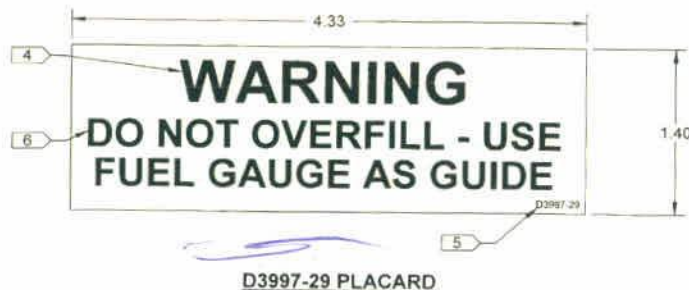
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3997-29P *D3997-29P* Placard		Purchased		No			Each	0.0000		20			

\*\*

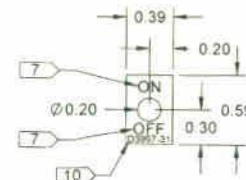
P 4/3/05 (18)

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D3997-29	JCA-M47-P17
D3997-31	JCA-M47-P18
D3997-33	JCA-M47-P19
D3997-35	JCA-M47-P20

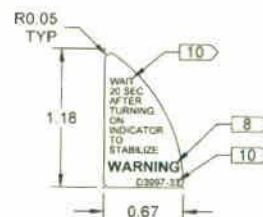
PART NUMBER	INSTALLATION INSTRUCTIONS
D3997-29	ADJACENT TO FUEL FILLER
D3997-31	AROUND AUX FUEL GAUGE ON/OFF SWITCH ON INSTRUMENT PANEL
D3997-33	ON AUX FUEL GAUGE COVER
D3997-35	ADJACENT TO AUX FUEL GAUGE ON/OFF SWITCH ON INSTRUMENT PANEL



D3997-29 PLACARD



D3997-31 PLACARD



D3997-33 PLACARD



D3997-35 PLACARD

**NOTES:**

- 1) MATERIAL: 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031
- 2) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) UNITS: INCHES UNLESS OTHERWISE NOTED
- 4) 36 PT BOLD FONT, RED TEXT ON WHITE BACKGROUND
- 5) 6 PT FONT, BLACK TEXT ON WHITE BACKGROUND
- 6) 24 PT BOLD FONT, BLACK TEXT ON WHITE BACKGROUND
- 7) 10 PT FONT, WHITE TEXT ON BLACK BACKGROUND
- 8) 9 PT BOLD FONT, WHITE TEXT ON BLACK BACKGROUND
- 9) 12 PT FONT, WHITE TEXT ON BLACK BACKGROUND
- 10) 6 PT FONT, WHITE TEXT ON BLACK BACKGROUND

SHOPEX  
HAWKESBURY  
ON  
UNTER  
80845  
1012-03-1

RELEASED  
2010-01-11  
MP

DESIGN		<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
DRAWN		DRAWING NO.
CHECKED		D3997
MFG. APPR.		TITLE
APPROVED		PLACARD
DE APPR.		SCALE
DATE	09.10.05	NTS

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16322

Purchase Order Date 3/1/2012

PO Print Date 3/1/2012

Page Number 1 of 1

Order From :

VC-STU001

STUDIO DE LETTRAGE 2001  
210 MAIN WEST  
HAWKESBURY, ON K6A 2H6  
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

613 632 5449

613 632 9491

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Brigitte Golden

10127-2607

Net 30

CAD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3997-29P	Placard	3/2/2012 Yes	20.00 Each	Yours ppd	\$8.0000	\$160.00
		Special Inst:	As per DWG: D3997 Rev: A B80845				
2	D3997-1P	Placard	3/2/2012 Yes	10.00 Each	Yours ppd	\$8.0000	\$80.00
		Special Inst:	B80847				

PO Total:

\$240.00

Change Nbr: 2

Change Date: 3/1/2012

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

# Studio de Lettrage

210 Main Street W  
Hawkesbury, Ontario K6A 2H6

## INVOICE

Invoice No.: 17444  
Date: 02/29/2012  
Ship Date: 03/02/2012  
Page: 1  
Re Order No. WO6724

### Sold to:

Dart Aerospace Ltd  
1270 Aberdeen  
Hawkesbury, Ontario K6A 1K7

### Ship to:

Dart Aerospace Ltd  
Hawkesbury, Ontario

Business No.: 82500 7631 RT0001

Business No.:		82500 7631 RT0001				
Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
		20	Autocollant D3997-29P Placard	H	8.00	160.00
		10	Autocollant D3997-1P Placard	H	8.00	80.00
			PO# 16322			
			H - HST 13%			
			HST			31.20
			PST Exempt: #6122-5207			
Suzuki						
Studio de Lettrage HST: #825007651RT0001						
Shipped By: Tracking Number:					Total Amount	271.20
Comment:						
Sold By:						



## Product & Instruction Bulletin 8522

Release I, Effective September 2008

See Bulletin Change Summary and end of Bulletin

The Bulletin will indicate the end of Bulletin 8522.

# Scotchcal™ Changeable Opaque Imaging Media 8522

## Product Description

## Recommended Types of Graphics and End Uses

### For Thermal Inkjet Printing

This durable, 7 mil, opaque, changeable film is optimized for use with selected thermal inkjet printers and inks. Ink dries quickly on the film. When overlaminated, it is warranted for medium term, outdoor weatherable graphics, and long term indoor graphics.

When constructed and used as described in this Bulletin, these types of graphics and end uses may be warranted by the 3M™ MCS™ Warranty. Please read the entire Bulletin for details.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
  - Graphics for vans, personal vehicles, trucks and buses
  - Novelty posters
  - Retail and point-of-purchase displays
  - Information graphics such as maps and directories
  - Entertainment promotions in museums, zoos, parks, theatres, sports venues
  - Education and presentation graphics
  - Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical ( $\pm 10^\circ$ ) applications

## Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs or recommend other products.

### Unsuitable End Uses for This Product

- Not for electronically cut individual letters and numbers
- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets; tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.
- Graphics made for automotive Original Equipment Manufacturers (OEM); contact 3M Automotive Division at 1-800-328-1684 for alternatives.

## About Water-Based Inkjet Technology

Standard inkjet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication, Shelf Life and Storage sections in this Bulletin. Staying in the middle of these ranges always provides optimum performance.

## Compatible Products

### 3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

This Bulletin provides details about the base film and construction options and warranty. Additional specific information about compatible products can be found in the Product and Instruction Bulletins listed in **3M Related Literature** at the end of this bulletin.

### 3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

#### Film

- 3M™ Scotchcal™ Opaque Imaging Media 8522

#### Overlamine

- 3M™ Scotchcal™ Luster Overlamine 8519
- 3M™ Scotchcal™ Matte Overlamine 8520

#### Printers and Inks

HP Designjet Printers	HP Inks
<ul style="list-style-type: none"> <li>• 2500CP and 2000CP</li> <li>• 2800CP and 3800CP</li> <li>• 3500CP and 3000CP</li> <li>• HP Designjet 5000 and 5500</li> </ul>	<ul style="list-style-type: none"> <li>• Designjet CP Ink System UV (pigment-based)</li> <li>• Designjet CP Inkjet System (imaging ink)</li> </ul>
<ul style="list-style-type: none"> <li>• Z6100</li> </ul>	<ul style="list-style-type: none"> <li>• HP 91 Viverra Ink System</li> </ul>
Epson Printers	Epson Inks
<ul style="list-style-type: none"> <li>• Stylus Pro 9500</li> <li>• Stylus Pro 10000 printer</li> <li>• Stylus Pro 10600 printer</li> </ul>	<ul style="list-style-type: none"> <li>• Archival Inks</li> </ul>

## Characteristics

These are typical values for unprocessed product; processing may change the values. Contact your 3M representative for a custom specification.

Characteristic	Description
Media	7 mil, white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness	<b>Media with adhesive:</b> 7.5 to 8 mil (nominal)
Warranted application substrates	See next page.
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical ( $\pm 10^\circ$ ) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Removable	For up to one year; see Warranty Information



Characteristic	Description
Warranted application substrates	<p>Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.</p> <ul style="list-style-type: none"> <li>• Alodine (anodized aluminum)</li> <li>• Automotive panels (automotive painted steel)</li> <li>• Fruehauf (painted aluminum)</li> <li>• FRP (fiberglass reinforced plywood)</li> <li>• Glass</li> <li>• Imron® (polyurethane-painted metal panel)</li> <li>• Acrylic</li> <li>• Sintra™ board</li> </ul> <p>Note: Use on any other substrate is strictly on a graphics manufacturer and customer test and approve basis. Test for both adhesion and removal characteristics. The plasticizer in some banner materials may migrate. This may cause the edge of the graphic to peel or lift off of the banner. For optimum performance, follow the guidelines in the section, Creating A Laminated Overlap, on page 4.</p>

## Warranty Information

The warranty given in the Product Bulletin that is current at the time you purchased the film is the one that 3M will honor. **The warranties in the following table(s), given in years, are for finished graphics exposed in a vertical exposure in the United States except the Desert Southwest.** See the warranty sections following this table for additional information.

### 3M™ MCS™ Warranty Durability for Finished Graphics

Construction (film and overlamine on warranted substrate)	HP Printers & Inks		Epson Printers & Inks		Removal
	Outdoor	Indoor	Outdoor	Indoor	
8522/8519	3 years	5 years	2 years	5 years	1 year without chemical strippers or tools
8522/8520					

## Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of **merchantability** or fitness for a particular purpose or implied warranty arising out of a course of dealing, custom or usage of trade: all 3M products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. These remedies are exclusive. **In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.**

See the Graphics Market Center Warranty Brochure, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

## Drying Guidelines

Usually, the media can be laminated within 10 minutes after printing. However, especially in high humidity conditions, we recommend waiting 15 to 30 minutes before laminating.

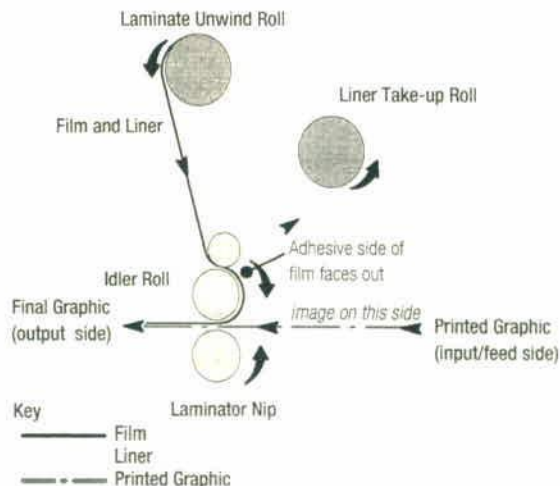
Use care when handling graphics that have not been laminated to avoid scratching and abrasion.

Graphics made with this media and ink combination typically may be wound directly on a take-up roll after printing.

## Overlamine

Whether or not you want a warranted graphic, an overlamine is recommended to enhance durability, especially in outdoor applications.

FIGURE 1  
Typical Laminator Thread-up



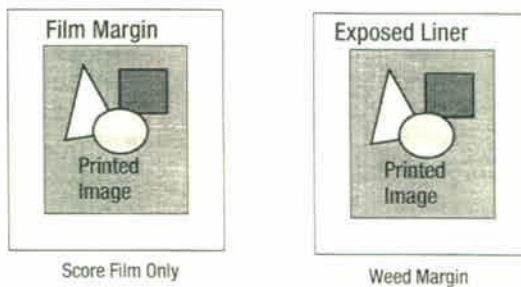
## Creating a Laminated Overlap

Creating a laminated overlap helps ensure that the graphic does not peel or lift away from certain banner materials that may be subject to plasticizer migration. This method may also be used for flat, rigid or flexible sign applications.

1. Print the graphic as usual.
2. On all sides of the graphic, score *the film only* to the correct, final graphic dimension *without cutting through the liner*.

Weed away the excess film, leaving the bare liner exposed around the graphic. See FIGURE 2.

FIGURE 2  
Trim and Weed Film Margin Only



3. Laminate the graphic as usual (see page 5), making sure that at least one inch of the bare liner is covered by the laminate. See FIGURE 3.